EXHIBIT B

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Page 1
 1
               IN THE UNITED STATES DISTRICT COURT
                    EASTERN DISTRICT OF TEXAS
 2
                        MARSHALL DIVISION
 3
 4
 5
     ENTROPIC COMMUNICATIONS, LLC,
                                          )
          Plaintiff,
                                          )
                                          )
                                             Case No.:
 6
                                             2:22-cv-00125-JRG
         vs.
 7
     CHARTER COMMUNICATIONS, INC.,
          Defendants.
 8
 9
10
11
12
13
               VIDEO-RECORDED REMOTE DEPOSITION OF
                    STEVEN GOLDBERG, Ph.D.EE
14
15
                      Cupertino, California
16
               Tuesday, August 22, 2023; 7:58 a.m.
17
18
19
                TAKEN IN BEHALF OF THE PLAINTIFFS
20
21
22
     REPORTED BY:
23
     Victoria A. Guerrero, CSR, RDR, RMR, CRR
24
     Job No. 6060655
25
     Pages 1 through 263
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Page 2
1
              IN THE UNITED STATES DISTRICT COURT
 2
                    EASTERN DISTRICT OF TEXAS
                        MARSHALL DIVISION
 3
 4
 5
     ENTROPIC COMMUNICATIONS, LLC,
                                          )
          Plaintiff,
                                          )
                                          )
                                             Case No.:
 6
                                             2:22-cv-00125-JRG
         vs.
 7
     CHARTER COMMUNICATIONS, INC.,
          Defendants.
 8
9
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12
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14
          BE IT REMEMBERED that, pursuant to Federal
15
     Rules of Civil Procedure, the deposition of STEVEN
16
17
     GOLDBERG, Ph.D.EE was taken before Victoria A.
     Guerrero, California Certified Shorthand Reporter,
18
     Registered Diplomate Reporter, Registered Merit
19
     Reporter, and Certified Realtime Reporter, on
20
     Tuesday, August 22, 2023, commencing at the hour of
21
     7:58 a.m., the witness responding to questions by
22
23
     videoconference from Cupertino, California; the
24
     questions being propounded and proceedings reported
     remotely via videoconference.
25
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Page 3
    REMOTE APPEARANCES:
1
 2
    FOR THE PLAINTIFF:
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    ALSO PRESENT:
15
              Sean Grant, Videographer
16
17
18
19
20
2.1
2.2
2.3
24
25
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		Pag	re 4
1	TNIDEN AV ENVMINYALVM		
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2	WITNESS: STEVEN GOLDBERG, Ph.D.EE		
3			
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2	D.,		VEN GOLDBERG, Ph.D.EE		
3	Entrop		cations vs. Charter Communication	1S	
4			sday, August 22, 2023		
5	V 3	lctoria A.	Guerrero, CSR, RPR, RMR, CRR		
6	MADEED		DECCRIPATON	DACE	TTNID
7	MARKED		DESCRIPTION	PAGE	LINE
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8	EXHIDIC	T	CV of Steven H. Goldberg (No Bates)	26	2
9	Exhibit	2	Opening Expert Report of	48	20
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10			Invalidity of US Patent Nos.		
10			'775, '690, '008, '826, and		
11			'682 (No Bates)		
12	Exhibit	3	DOCSIS 2.0 PHY;	59	5
12		J	CHARTER ENTROPIC00380721	3,5	5
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14	Exhibit	4	US Patent No. 8,284,690	56	10
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			(No Bates)		
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20			2001/0039600 A1 (Brooks)		
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23	Exhibit	9	US Patent No. 9,825,826	162	12
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24					
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1	TND	EX TO EXHIBITS (cont'd)		
2		EVEN GOLDBERG, Ph.D.EE		
3		ications vs. Charter Communication	าร	
4	_	esday, August 22, 2023	.10	
5		. Guerrero, CSR, RPR, RMR, CRR		
6		,,,		
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7				
	Exhibit 10	US Patent Application	151	7
8		Publication No. US		
		2007/0286311 A1 (Coyne);		
9		CHARTER_ENTROPIC00033947		
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11		(Caporizzo) (No Bates)		
12	Exhibit 12	US Patent No. 7,528,888	162	16
		(Narita) (No Bates)		
13				
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14	- 1111.	(No Bates)		
15	Exhibit 14	US Patent No. 6,704,372	180	19
1.0		(Zhang) (No Bates)		
16	Exhibit 15	HC Datent Application	180	21
17	EXIIIDIC 15	US Patent Application Publication No. US	100	21
1/		2007/0098089 A1 (Li)		
18		(No Bates)		
19	Exhibit 16	US Patent No. 10,135,682	224	22
		(No Bates)		
20		,		
	Exhibit 17	US Patent Application	225	1
21		Publication No. 2013/0041990		
		A1 (Thibeault) (No Bates)		
22				
	Exhibit 18	US Patent Application	225	4
23		Publication No. US 202/0269242		
		A1 (Prodan) (No Bates)		
24				
25		* * *		

		Page 7
1	Tuesday, August 22, 2023; 7:58 a.m.	
2	Cupertino, California	
3	00000	
4	THE VIDEOGRAPHER: Good morning. We're	07:58:32
5	going on the record. The time is 7:58 a.m. and	07:58:33
6	the date is August 22nd, 2023. Please note	07:58:37
7	that this deposition is being conducted	07:58:42
8	virtually. Quality of recording depends on the	07:58:44
9	quality of camera and internet connection of	07:58:47
10	participants. What is seen from the witness	07:58:49
11	and heard is what will be recorded. Audio and	07:58:51
12	video recording will continue to take place	07:58:55
13	unless all parties agree to go off.	07:58:57
14	This is Media Unit 1 of the video-recorded	07:58:59
15	deposition of Dr. Steven Goldberg taken by	07:59:02
16	counsel for the plaintiff in the matter of	07:59:04
17	Entropic Communications, LLC., vs Charter	07:59:07
18	Communications, Inc., filed in the United	07:59:07
19	States District Court for the Eastern District	07:59:11
20	of Texas, Marshall Division, Case No.	07:59:13
21	2:22-cv-00125 and is being conducted remotely	07:59:17
22	using virtual technology.	07:59:27
23	My name is Sean Grant, videographer, of	07:59:30
24	Veritext. The court reporter is Victoria	07:59:31
25	Guerrero also of Veritext. I'm not related to	07:59:33

		Page 8
1	any party, nor am I financially interested in	07:59:35
2	the outcome.	07:59:37
3	If there are any objections to proceeding,	07:59:38
4	please state them at the time of your	07:59:39
5	appearance. Counsel and all present, including	07:59:42
6	remotely, will now state their appearances and	07:59:43
7	affiliations for the record beginning with the	07:59:46
8	noticing attorney.	07:59:48
9	MR. SHIMOTA: James Shimota of the law	07:59:52
10	firm K & L Gates appearing on behalf of	07:59:54
11	Entropic Communications LLC, joined as well by	07:59:57
12	my colleague Pat Richey also from the law firm	07:59:59
13	K & L Gates.	08:00:04
14	MR. BENYACAR: David Benyacar of the	08:00:05
15	Arnold & Porter firm for the Charter	08:00:08
16	defendants.	08:00:10
17	THE VIDEOGRAPHER: Thank you. Will the	08:00:11
18	certified court reporter please swear in the	08:00:12
19	witness.	08:00:13
20	00000	08:00:13
21	Whereupon, STEVEN GOLDBERG, Ph.D.EE, having	08:00:13
22	first been sworn by the California	08:00:13
23	Certified Shorthand Reporter, testified	08:00:13
24	under oath as follows:	08:00:13
25	///	08:00:13

		Page 114
1	been talking about.	11:42:47
2	A You mean element 26?	11:42:48
3	Q Element 26. Right. I misspoke. Right.	11:42:53
4	Right.	11:42:55
5	You know, you use figure 26 or figure 1 in	11:42:56
6	your report, right? That's part of your opinions,	11:43:01
7	correct?	11:43:04
8	A I talk about element 26, right, in my	11:43:05
9	report.	11:43:12
10	Q Yeah. So I'm just wondering where you	11:43:12
11	would point to the cable modem engine processor, the	11:43:14
12	DOCSIS MAC controller, and the DOCSIS MAC processor.	11:43:19
13	What elements would you if you had to explain	11:43:22
14	this to a jury and say where those things are in	11:43:25
15	block element 26, block 26, where would you show	11:43:28
16	those things to them or what would you draw circles	11:43:32
17	around?	11:43:35
18	A Yeah. I talk about that in some detail in	11:43:36
19	my report. And you asked a much broader question	11:43:38
20	just now. And so I think it's important to go to my	11:43:43
21	report and address that. I've already stated that	11:43:48
22	figure 1 I think it's figure 1, right? It is	11:43:55
23	figure 1. Is a functional description.	11:43:57
24	I went on to say that, a POSITA guided by	11:44:03
25	statements made by Dong would understand that those	11:44:06

	Pag	ge 115
1	functional elements are implemented with at least	11:44:09
2	one processor programs with software. I say that in	11:44:12
3	paragraph 54.	11:44:18
4	Q Uh-huh.	11:44:19
5	A And then you asked me again in block 26, I	11:44:20
6	think you just asked about more things in this	11:44:27
7	latest question about the processors. I spend a lot	11:44:29
8	of time, and I think it might be appropriate now to	11:44:39
9	go to section in order to answer your question,	11:44:42
10	so we need to go to the claim construction.	11:45:04
11	Can you go to my paragraph 77 in my section	11:45:06
12	under USC, 35 USC 112. I talk quite a bit about	11:45:10
13	what the the Court's construction. And the issue	11:45:25
14	as to whether in the cable modem functions	11:45:35
15	whether and I'm quoting from my report,	11:45:41
16	paragraph 77.	11:45:44
17	The Court further interpreted the claim	11:45:45
18	phrase, quote, wherein the cable modem functions	11:45:48
19	performed by the cable modem engine are completely	11:45:51
20	partitioned from the home networking functions	11:45:54
21	performed by the data networking engine to mean,	11:45:56
22	wherein, the cable modem and data networking engine	11:46:01
23	are not necessarily physically separate, but are	11:46:04
24	functionally separate, such that the cable modem	11:46:07
25	functions are performed only by the cable modem and	11:46:11

	Pag	ge 116
1	the home networking functions are performed only by	11:46:13
2	the data networking engine.	11:46:17
3	So I want to point out that the Court	11:46:19
4	basically noted they don't have to be physically	11:46:31
5	separate. So when you say draw circles around them,	11:46:36
6	it doesn't that doesn't it's not consistent	11:46:40
7	with what the Court described.	11:46:44
8	Q Okay. So you're talking about there	11:46:47
9	you're talking about the home networking engine and	11:46:50
10	the cable networking engine, right?	11:46:52
11	A No. I'm talking here about let's go	11:47:03
12	even further. Here I talk about, in paragraph 79,	11:47:06
13	although the Court ruled that a DOCSIS MAC and	11:47:21
14	DOCSIS controller are well known by those of	11:47:24
15	ordinary skill-in-the-art, I disagree.	11:47:27
16	The Court itself stated, quote, the absence	11:47:30
17	of involvement of the DOCSIS controller in this	11:47:33
18	particular operation does not preclude the DOCSIS	11:47:35
19	controller from being involved with other MAC	11:47:37
20	functions.	11:47:39
21	Consistent with the Court's statement, the	11:47:41
22	industry has a general sense of what this term means	11:47:43
23	but provides no clear delineation between the two.	11:47:47
24	And I go on about another topic.	11:47:50
25	But the punchline is, and the important	11:47:52

	Pag	ge 117
1	opinion here is, is that the Court's construction	11:47:55
2	makes it difficult or impossible to draw circles	11:48:00
3	impossible, basically, to draw circles around the	11:48:04
4	MAC processor and the DOCSIS controller that's	11:48:07
5	specified.	11:48:13
6	And I go on to say in paragraph 80, There	11:48:14
7	is not any written description or enablement on how	11:48:17
8	to perform the control limitation, "The DOCSIS mass	11:48:20
9	processor configured to process downstream PDU	11:48:25
10	packets and forward the processed packets directly	11:48:29
11	to the data networking engine without the	11:48:33
12	involvement of the DOCSIS controller."	11:48:35
13	Q Okay. Let's just flip back to page 12 of	11:48:40
14	your report there. You've got the Court's	11:48:42
15	constructs there.	11:48:44
16	A Okay.	11:48:50
17	Q You see DOCSIS MAC processor and DOCSIS MAC	11:48:51
18	controller there at the bottom, right?	11:48:54
19	A Yes.	11:48:56
20	Q Where is all that stuff about you can't	11:48:56
21	separate the functions of the DOCSIS MAC processor	11:48:58
22	and the DOCSIS MAC controller? Where is that?	11:49:01
23	Where are you getting that from? I don't see it.	11:49:03
24	A No. The	11:49:10
25	MR. BENYACAR: Objection. Argumentative.	11:49:11

	Pa	ge 127
1	that there is no clear distinction between the	12:07:23
2	DOCSIS MAC functions and the DOCSIS controller	12:07:26
3	functions; you see that?	12:07:28
4	A Yes. In reading 66 or 67?	12:07:44
5	Q Yeah, 66. There's no clear functional	12:07:49
6	delineation between the two terms?	12:07:51
7	A That's what I I said there's no clear	12:07:55
8	distinction, yes.	12:08:00
9	Q Right. And that's not in the Court's	12:08:04
10	construction, it's in the Court's opinion, correct?	12:08:06
11	You're quoting from the Court's opinion, that's	12:08:09
12	claim construction opinion, right?	12:08:12
13	The absence of involvement of the DOCSIS	12:08:15
14	controller in this particular operation does not	12:08:17
15	preclude the DOCSIS controller from being involved	12:08:21
16	with other MAC functions; do you see that?	12:08:23
17	A Yes. And just to answer your question, I'm	12:08:26
18	not an attorney, I know we've established that, and	12:08:28
19	that the Court did construe plain and ordinary	12:08:33
20	meaning. And what I was trying to do is I'm working	12:08:37
21	with the Court's construction. I'm just explaining	12:08:39
22	the issue of plain and ordinary meaning.	12:08:42
23	Q Right. But you're quoting something there,	12:08:47
24	right? From the Court, right? The quote is the	12:08:49
25	absence of involvement of the DOCSIS controller in	12:08:51

	Pa	ıge 128
1	this particular operation does not preclude the	12:08:53
2	DOCSIS controller from being involved with other MAC	12:08:56
3	functions, right? That's from the Court, isn't it?	12:08:59
4	A Yes.	12:09:01
5	Q That's the Court's opinion, right?	12:09:03
6	A You're asking me a legal question. I can't	12:09:06
7	answer what it actually it came from the Court.	12:09:09
8	Q Well, your opinions here are intended to be	12:09:12
9	what, you know, to describe the opinions you're	12:09:15
10	going to offer to the jury at trial, correct?	12:09:16
11	Right?	12:09:19
12	A Yes.	12:09:20
13	Q And so I take it, then, that you're going	12:09:22
14	to explain to the jury that based on the Court's	12:09:25
15	the information provided by the Court, there's no	12:09:28
16	clear delineation between the DOCSIS MAC processor	12:09:33
17	and the DOCSIS MAC controller, right? That's going	12:09:36
18	to be one of your opinions to the jury?	12:09:38
19	A My opinion is very close to that stated in	12:09:40
20	at least paragraph 66, yes.	12:09:45
21	Q Okay. And that and as a consequence of	12:09:47
22	that, you're going to say this is how I analyzed	12:09:50
23	Dong, right?	12:09:52
24	As a consequence of a lack of a clear	12:09:55
25	delineation occasioned by the Court's analysis, this	12:09:58

		Page 129
1	is the way in which I analyzed Dong, the cable modem	12:10:01
2	engine block 26?	12:10:05
3	A And that's kind of what I said in the first	12:10:07
4	sentence of paragraph 67.	12:10:10
5	Q Okay. Just not to put too fine a point on	12:10:17
6	it, you're not going to show up at trial and put	12:10:19
7	figure 1 up on an ELMO for a jury and draw a circle	12:10:22
8	around something and say this is the DOCSIS MAC	12:10:26
9	processor and draw another circle and say there's	12:10:29
10	the DOCSIS MAC controller, right, block 26?	12:10:31
11	MR. BENYACAR: Objection. Misstates the	12:10:34
12	testimony.	12:10:35
13	THE WITNESS: That's not what I said. I	12:10:36
14	gave an example of how Dong could be	12:10:42
15	partitioned that meets the claim language.	12:10:45
16	Because the claim language also needs to	12:10:46
17	include bypassing, seconding PDU packet I'm	12:10:48
18	paraphrasing here. That bypass the DOCSIS	12:10:52
19	that bypass the DOCSIS controller.	12:10:56
20	And so my testimony has been that there	12:11:02
21	that Dong does disclose a DOCSIS MAC and DOCSIS	12:11:07
22	control partition such that PDU packets bypass	12:11:19
23	the DOCSIS controller.	12:11:23
24	BY MR. SHIMOTA:	12:11:24
25	Q So where is the partition? You said that	12:11:24

		Page 157
1	A I do.	14:05:45
2	Q And can you tell me where it is in Coyne	14:05:46
3	there's an explicit disclosure of a plurality of	14:05:49
4	television channels?	14:05:51
5	A Okay. Well, first of all, Coyne says it	14:06:04
6	can be used in any application.	14:06:13
7	Second of all, I'll come down, so in 251 I	14:06:15
8	talk about, Coyne teaches that a device called a	14:06:20
9	combiner combines incoming radiofrequency signals,	14:06:23
10	which are analog signals, to a wideband or ultra	14:06:27
11	wideband spectral space and outputs them to an	14:06:30
12	analog-to-digital converter.	14:06:34
13	This converter provides a digital	14:06:36
14	representation of the combined signal to the	14:06:38
15	channelizer which converts, that is demultiplexes,	14:06:42
16	that digital signal into one or more channel	14:06:46
17	outputs.	14:06:49
18	Then I go on. This channelizer outputs to	14:06:50
19	a digital signal spanning an entire television	14:06:53
20	spectrum, quote/unquote. Per Coyne, if channelizer	14:06:55
21	240 is used to generate multiple channel outputs,	14:07:03
22	each may span a desired portion of the entire	14:07:06
23	frequency entire frequency spectrum of interest.	14:07:09
24	Coyne also discloses this channelizer has a	14:07:14
25	filter bank in which each filter possesses a pass	14:07:17

	Pa	.ge 158
1	band spanning some portion of the frequency spectrum	14:07:20
2	of interest. Coyne instructs that the pass bands of	14:07:24
3	all filters span the complete spectrum of interest.	14:07:28
4	Now, then I go on and say, a POSITA would	14:07:32
5	understand that the complete spectrum of interest,	14:07:37
6	in quotes, includes the entire television spectrum,	14:07:40
7	in quotes, claimed by the '008 patent. Although,	14:07:43
8	the '008 patent does not define the term, quote,	14:07:48
9	entire television spectrum, it states that the,	14:07:51
10	quote, entire cable downstream occurs at frequencies	14:07:54
11	in a range from approximately 55 megahertz to 102	14:07:58
12	megahertz.	14:08:04
13	And that for satellite television, the	14:08:06
14	frequency range is 1 gigahertz to 2 gigahertz, '008	14:08:09
15	556 to 565. The '008 patent does not disclose a	14:08:14
16	television spectrum with frequencies outside these	14:08:18
17	ranges.	14:08:20
18	So these frequencies disclosed by Coyne.	14:08:21
19	He teaches that some embodiment Coyne teaches	14:08:25
20	that some embodiments of the invention may be	14:08:29
21	wideband. Which we talked about, e G up to	14:08:31
22	5-megahertz or ultra wideband up to two gigahertz.	14:08:37
23	Coyne knows these frequencies may be	14:08:42
24	divided up in different ways. And I talk some more.	14:08:44
25	So in my opinion, a POSITA would readily understand	14:08:48

	Pa	ge 159
1	that this range starts at 1 megahertz and ends at	14:08:52
2	512, even though Coyne does not specifically use	14:08:55
3	this language.	14:08:59
4	A POSITA would readily extrapolate from	14:09:00
5	this example to determine that the particular range	14:09:02
6	as disclosed by Coyne, which is as great as 2	14:09:05
7	gigahertz, constitute the entire television spectrum	14:09:09
8	claimed by the '008.	14:09:13
9	So a lot of words there, but you can see	14:09:14
10	what I said at the end, that a POSITA would readily	14:09:16
11	extrapolate.	14:09:19
12	Q Thank you for reading your report to me. I	14:09:21
13	see at the end you talk about the entire television	14:09:23
14	spectrum. But my question before you read your	14:09:26
15	report to me was, where does Coyne describe anywhere	14:09:28
16	television channels?	14:09:33
17	Can you point me to that specifically?	14:09:35
18	And you don't need to read your report to	14:09:37
19	me again. Tell me where it is in Coyne where they	14:09:39
20	talk about television channels.	14:09:42
21	A He talks about spectrum, he talks about	14:09:44
22	channelizing, and he talks about that it can be used	14:09:46
23	anywhere.	14:09:49
24	Q You understand TV channels to mean, like,	14:09:53
25	ESPN and HBO and things like that, right? Context	14:09:55

	Pa	age 213
1	do this function, you look at mixers.	16:02:47
2	Q Is there anything else you would look at to	16:02:53
3	do that function that you're aware of? You say you	16:02:55
4	haven't done that analysis.	16:02:55
5	A Not that I know of. Oh, I didn't say I	16:02:56
6	haven't done that. I mean, I said I haven't done	16:02:59
7	the exhaustive search of what you could do. But I	16:03:01
8	absolutely, throughout my career, did this. And you	16:03:04
9	always look to mixers. In my again, in the	16:03:07
10	commercial and industrial applications related to	16:03:15
11	Zhang and certainly the '362.	16:03:18
12	Q Okay. Well, looking at paragraph 374 of	16:03:23
13	your report, do you see that? I think that's a	16:03:31
14	summary of your opinions. Invalidity over Zhang or	16:03:37
15	Zhang in combination with Favrat; do you see that?	16:03:40
16	A 37 what?	16:03:46
17	Q 374 of your report on page 111.	16:03:59
18	A Okay. I'm there. That's 374 is the	16:03:59
19	beginning of the section.	16:04:05
20	Q Yeah, right. I think it's just a summary	16:04:06
21	of what you opine, ultimately.	16:04:08
22	A Yeah.	16:04:17
23	Q Am I correct you don't offer an opinion in	16:04:17
24	which you combine Zhang with the Li reference in	16:04:19
25	terms of an obviousness combination?	16:04:23

	Pa	ge 214
1	A That's correct. Li was brought in as	16:04:38
2	support for the use of a mixer. Just that it's	16:04:40
3	obvious to a person of ordinary skill in the art. I	16:04:44
4	don't think any of my headings in my report but	16:04:47
5	I'll double-check that. Let me just before I	16:04:52
6	give you, quote/unquote, my final answer.	16:04:55
7	Well, I state that in my opinion claims 11	16:05:33
8	and 12 in my paragraph 374 are invalid	16:05:36
9	claims 11 and 12 of the '362 patent are invalid over	16:05:41
10	US Patent No and I'll shorten it '372 Zhang	16:05:47
11	alone, or Zhang in combination with US Patent No.	16:05:52
12	'792 Favrat.	16:05:54
13	It's also my opinion claims 11 and 12 of	16:06:01
14	the '362 are invalid over US Patent '901, Dauphinee.	16:06:03
15	That's my opinion.	16:06:10
16	Q Right. So I guess not to be put too	16:06:11
17	fine a point on it, but you don't offer an opinion	16:06:15
18	that the claims claims 11 and 12 of '362 patent	16:06:18
19	are obvious when combining Zhang with Li, correct?	16:06:23
20	A I think Li Li was used and if you'll	16:06:46
21	look at the last sentence in 393, Li was used as	16:06:52
22	support to, quote/unquote, and I quote from my	16:06:56
23	report, confirms my understanding that Zhang's	16:06:58
24	frequency block converter are mixers or mixer	16:07:01
25	modules within the meaning of the '362 patent.	16:07:05

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1	That's how Li was used.	16:07:08
2	Q Right. You're not offering an opinion that	16:07:16
3	one of ordinary skill-in-the-art would combine Zhang	16:07:18
4	and Li to find that the '362 claims 11 and 12 are	16:07:22
5	obvious, right?	16:07:26
6	A I don't think that's anywhere in my report.	16:07:27
7	I said how I used Li. Li confirms my understanding.	16:07:30
8	Q Okay. Thank you. If you could look at	16:07:42
9	paragraph 389. I think we already talked about this	16:07:44
10	a little bit. And there there's the reference that	16:07:47
11	you talked about, the undesired we talked earlier	16:07:51
12	about undesired channels; do you remember that?	16:07:52
13	A We did.	16:07:55
14	Q Right. Can you explain to me in there	16:07:58
15	where it is that Zhang discloses undesired channels	16:08:01
16	explicitly?	16:08:05
17	A Sure. In 389 it says selects one or	16:08:07
18	more this is the quote from Zhang. Selects one	16:08:28
19	or more of the RF channels, D1 to DM, from one or	16:08:34
20	more of the digital RF channels, C1 through CN. So	16:08:38
21	there's a larger grouping and a smaller grouping and	16:08:47
22	there's a selection process.	16:08:50
23	Q Yeah. But why does that explicitly mean	16:08:55
24	that they are undesired channels? How does that	16:08:57
25	follow?	16:09:01

	Pa	age 216
1	A All right. Give me one second, please.	16:09:01
2	Q Sure.	16:09:04
3	A Well, paragraph 6 of Zhang, lines 18	16:10:46
4	through 34, you know, give more color. And there's	16:10:51
5	even it gets pretty specific about let's just	16:10:56
6	say there's 35 separate RF channels, C1 to C35. I'm	16:10:59
7	reading from line 29 of column 6.	16:11:08
8	For example, in figure 6 there are 35	16:11:11
9	separate RF channels, C1 to C35. Of those channels,	16:11:15
10	20 RF channels, D1 to D20, are selected. Those 20	16:11:19
11	selected RF channels are sent to a set of	16:11:25
12	demodulators for demodulation.	16:11:29
13	I think a person of ordinary	16:11:33
14	skill-in-the-art would understand the ones you	16:11:35
15	selected were the desired ones and the other ones	16:11:36
16	were undesired. You didn't need them.	16:11:40
17	Q Well, wouldn't it be possible that you	16:11:42
18	wouldn't have enough there would be some order	16:11:44
19	where you would have less demodulators than you	16:11:46
20	would have channels?	16:11:49
21	A Let me just go to my report. All right. I	16:12:02
22	just need a minute here. I'm going back to the	16:12:39
23	'362. In the '362 it almost is a perfect map	16:12:42
24	between Zhang and the '362.	16:13:13
25	If you look it says, line 29, column 1,	16:13:16

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1	Because the swath of channels is not contiguous,	16:13:21
2	this swath includes the desired channels as well as	16:13:24
3	the undesired channels. The demodulator employs a	16:13:29
4	high speed data converter to capture the swath of	16:13:32
5	desired and undesired channels in the digital domain	16:13:34
6	and subsequently filters out the desired channels.	16:13:37
7	That's what Zhang does. It's almost a	16:13:41
8	direct	16:13:47
9	Q Where does it say that in Zhang?	16:13:48
10	A Oh, I was just there. I'll go back to	16:13:50
11	Zhang. Yeah. It was column 6. It says, line 31	16:13:53
12	through 34, of those RF channels, 20 RF channels, D1	16:14:30
13	to D20, are selected. Those selected channels are	16:14:35
14	sent to a set of demodulators. That's exact	16:14:38
15	that's not exactly, but that's almost directly what	16:14:41
16	'362 says.	16:14:46
17	Q Right. There's two pieces in there. It	16:14:53
18	doesn't say that there's that the undesired	16:14:55
19	that nothing is done with the other channels, right?	16:14:57
20	That those other channels are undesired, correct?	16:15:01
21	Anywhere in Zhang.	16:15:03
22	A Well	16:15:06
23	Q You're inferring that, correct?	16:15:07
24	A Zhang I did a search on. My favorite	16:15:10
25	thing, just do the search on Zhang. And I think if	16:15:16